



CENTRAL UTAH WATER
CONSERVANCY DISTRICT

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October 30, 2018

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Subject: Water Year 2018 Administration of Central Utah Project, Bonneville Unit, Utah Lake / Provo River Storage Exchanges under CUP Water Right Nos. A40523, A36639, A37093, E398, E4319 and Central Utah Water Conservancy District Water Right Nos. E3100 and E3101

Dear Ross:

The purpose of this letter is to provide a report of CUP trans-basin imports, reservoir releases, and return flow credits claimed. We have received preliminary information needed for this report from the Provo River Commissioner and the Spanish Fork River Commissioner. In consultation with the commissioners we are estimating some of the information at this time. Once this information has been finalized to us and if needed we will update this report and resubmit it to you after the end of the Water Year.

In early 2018, it was evident that the level of Utah Lake would not cross the conversion line, or a lowered conversion line. Therefore, on March 27, 2018, a request was sent to your office requesting that exchanges E4319, E3100 and E3101 not be used to lower the Utah Lake conversion line in accordance with the Utah Lake Distribution Plan and that those exchanges be used for direct exchange. Furthermore, the District also requested to not use E398 until E4319, E3100, and E3101 had been exhausted.

Sources of CUP water in Utah Lake during water year 2018 (November 1, 2017 to October 31, 2018):

- 1) We claim that 81,719 acre-feet of import water under application A36639, was carried over from water year 2017, subject to incremental evaporation, in Utah Lake.

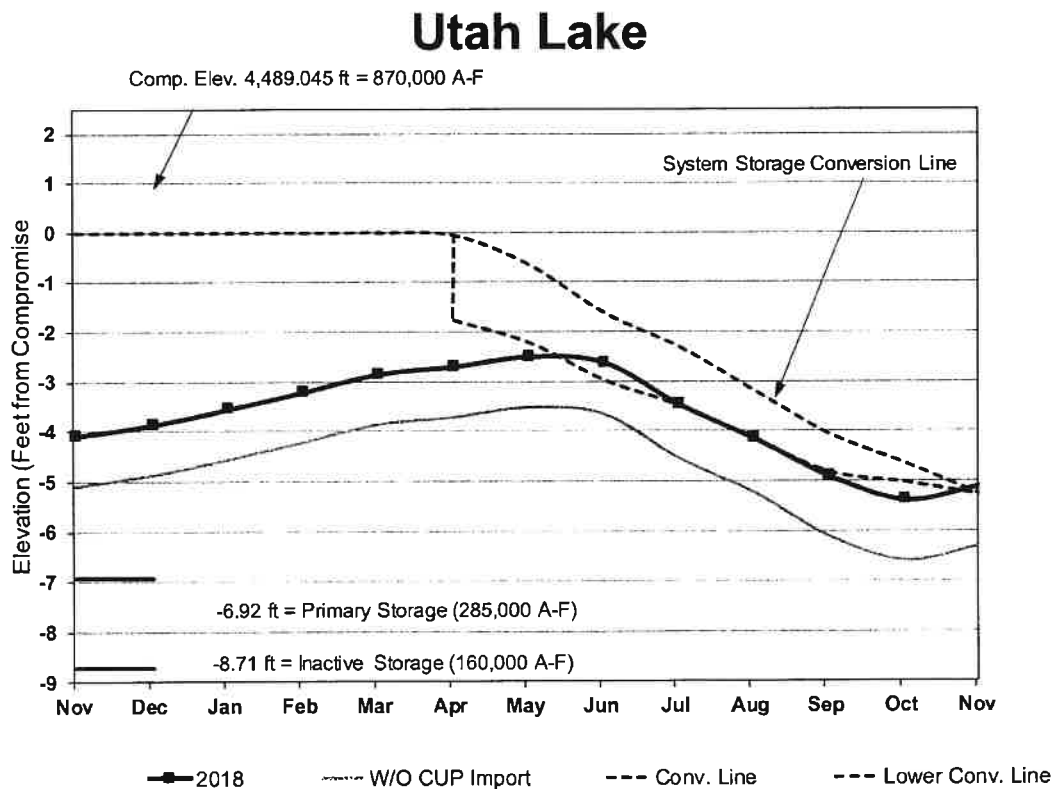
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- 2) We claim that water has been conveyed directly from Strawberry Reservoir to Utah Lake under A36639. A total of 20,090 acre-feet was conveyed to and stored in Utah Lake from November 1, 2017 through October 31, 2018. We are estimating the volume conveyed for the last few days of October. We understand that this will be adjusted for incremental evaporation, even in current year accounting. Adjustments for evaporation will be summarized later in this document.
- 3) We claim return flows from Strawberry Reservoir CUP irrigation deliveries made in South Utah County during water year 2018 under A36639 in the amount of 5,464 acre-feet. The amount of CUP water, delivered for irrigation use in South Utah County for October 2018 has not been completely reported to us by the Spanish Fork River Commissioner. When these values are reported to us we will then claim 35 percent of this amount, subject to incremental evaporation, be credited to CUP water in Utah Lake under A37093.



Please see the following tables showing our calculations for the above including calculations for incremental evaporation, which we estimate in the amount of 13,850 acre-feet. Please note that for simplification, we have assumed return flows reach the lake the same month the water is delivered to agricultural lands. The total import water amount (carryover, direct, and return flow) claimed in Utah Lake, estimated for the end of the water year, and adjusted for incremental evaporation, is 93,423 acre-feet.

CUP Import Water in Utah Lake WY2018

	Strawberry Res.	Strawberry Res.	35 Percent		Total	Total	
	Direct	CUP Ag.	CUP Ag.	Less	CUP Direct and	CUP Utah Lake	
	CUP Release to	Delivery to	Return Flow	Incremental	Return Flow	Storage	
	Utah Lake	S. Utah County	to Utah Lake	Evaporation	to Utah Lake		
Time Period	acre-feet	acre-feet	acre-feet	acre-feet	acre-feet	81,719 *	
Nov	1,320			-752	568		82,287
Dec	1,364			-303	1,061		83,348
Jan	1,364			-202	1,162		84,510
Feb	1,232			-178	1,054		85,564
Mar	1,364			-209	1,155		86,719
Apr	1,320			-338	982		87,701
May	4,487			-719	3,768		91,469
Jun	1,938	3,252	1,138	-1,197	1,879		93,348
Jul	855	3,702	1,296	-2,167	-16		93,332
Aug	1,200	7,274	2,546	-3,136	610		93,942
Sep	1,622	1,383	484	-2,885	-779		93,163
Oct ** Estimate	2,024			-1,764	260		93,423
Total	20,090	15,611	5,464	-13,850	11,704		
* Carryover from WY2017 adjusted for incremental evaporation							

Incremental Evaporation from CUP Import Water in Utah Lake WY2018

		EOM	EOM			
		Surface Area	Surface Area	Incremental	Incremental	
	EOM	w CUP	w/o CUP	Increase in	Evaporation	Incremental
	Elevation	Import Water	Import Water	Surface Area	kc=1.35	Evaporation
Time Period	feet bel. Comp.	acres	acres	acres	inches	acre-feet
Nov	-3.86	83,848	80,627	3,221	2.80	752
Dec	-3.55	84,823	81,635	3,188	1.14	303
Jan	-3.21	85,881	82,728	3,153	0.77	202
Feb	-2.85	86,849	83,875	2,974	0.72	178
Mar	-2.78	87,016	84,060	2,956	0.85	209
Apr	-2.50	87,690	84,932	2,757	1.47	338
May	-2.62	87,400	84,404	2,996	2.88	719
Jun	-3.47	85,073	81,508	3,565	4.03	1,197
Jul	-4.15	82,927	79,169	3,758	6.92	2,167
Aug	-4.91	80,465	76,432	4,033	9.33	3,136
Sep	-5.38	78,906	74,735	4,171	8.30	2,885
Oct ** Estimate	-5.10	79,838	75,760	4,078	5.19	1,764

Water Available for CUP in Utah Lake

Category	acre-feet
Import from Water Year 2017	81,719
A36639 directly conveyed to Utah Lake for exchange under E398	20,090
A36639 return flow in south Utah County area for exchange under A37093 and E398	5,464
Less Incremental Evaporation Loss on the above	-13,850
Total CUP import water in Utah Lake available for Exchange	93,423
E4319	7,900
E3101	16,862
E3100	57,073
Total Available for Exchange under E4319, E3100, E3101	81,835
CUP System Storage in Jordanelle and Deer Creek Reservoirs as of October 30 - Estimated	64,154
CUP System Storage in Jordanelle and Deer Creek Reservoirs Released to the Provo River	20,464
Amount remaing for Exchange under E4319, E3100, E3101	38,145
Total CUP import water in Utah Lake available for Exchange	93,423
CUP Import Water in Utah Lake Required for Provo River Storage Exchange	0
Total CUP import water in Utah Lake available for Exchange	93,423

When data for the water year is finalized and if necessary this report will be updated and resubmitted to you. Please contact me if you have any questions or need additional data.

Sincerely yours,



Rachel Musil, P.E.
Water Rights Manager

RM:

cc: Kent Jones – State Engineer
Scott Bergendorfer – Provo River Commissioner
John Mendenhall – Spanish Fork River Commissioner
John Larsen – Utah Lake/Jordan River Commissioner
Mike DeVries – Metropolitan Water District of Salt Lake and Sandy
Richard Bay – Jordan Valley Water Conservancy District
Keith Denos – Provo River Water Users Association
Wayne Pullan – U.S. Bureau of Reclamation
John Mann – U.S. Bureau of Reclamation
Reed Murray – U.S. Department of Interior